PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT			
To: MARCONI INTELLECTUAL PROPERTY Crompton Close Attn. Cockayne, Gillian Basildon Essex SS14 3BA UNITED KINGDOM	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
3 1 JAN 2005	Date of mailing (day/month/year)			
Applicable or oppose file reference	31/01/2005			
Applicant's or agent's file reference P/63777/U64	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/EP2004/051440	International filing date (day/month/year) 09/07/2004			
Applicant				
MARCONI COMMUNICATIONS GMBH				
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filling of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority datar, must reach the International Bureau as provided in Rules 90/bis.1 and 90/bis.3, respectively, before the completion of the technical preparations for international Bureau as provided in Rules 90/bis.1 and 90/bis.3, respectively, before the completion of the technical preparatio				
Name and mailing address of the International Searching Authority	Authorized officer			
European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Amandine Huniak			

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:

 "Claims 1 to 6 and 14 unphanced: plaims 7 to 12 appealled; new claims 15, 15 and 17 adds 18 and
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220					
P/63777/U64	ACTION as we	ell as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/EP2004/051440	09/07/2004	10/07/2003					
Applicant							
MARCONI COMMUNICATIONS GM	З Н						
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Au ansmitted to the International Bureau.	thority and is transmitted to the applicant					
This International Search Report consists	of a total of3 sheets.						
X It is also accompanied by	a copy of each prior art document cited in thi	s report.					
Basis of the report							
	international search was carried out on the bless otherwise indicated under this item.	asis of the international application in the					
The international this Authority (Ru		slation of the international application furnished to					
b. With regard to any nucle	otide and/or amino acid sequence disclose	d in the international application, see Box No. I.					
2. Certain claims were fou	nd unsearchable (See Box II).						
3. Unity of invention is lac	king (see Box III).						
4. With regard to the title,							
X the text is approved as su	bmitted by the applicant.						
the text has been establis	shed by this Authority to read as follows:						
5. With regard to the abstract,	ibmitted by the applicant						
the text is approved as su		rity as it appears in Box No. IV. The applicant					
		rch report, submit comments to this Authority.					
6. With regard to the drawings,							
a. the figure of the drawings to be p	published with the abstract is Figure No1						
X as suggested by	the applicant.						
	s Authority, because the applicant failed to su						
	s Authority, because this figure better charac	terizes the invention.					
b. none of the figures is to b	e published with the abstract.						

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/051440

A. CLASSI	H05K7/14 G06F13/40 G06F13/4	40 H05K7/14		
According to	o International Patent Classification (IPC) or to both national classific	eation and IPC		
	SEARCHED			
	ocumentation searched (classification system followed by classificati G06F H05K	ion symbols)		
Documenta	tion searched other than minimum documentation to the extent that s	such documents are included in the fields s	earched	
Electronic d	ata base consulted during the international search (name of data ba	ise and, where practical, search terms used	0)	
0.000	THE CONSIDERS TO BE SELECTION.			
	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rel	levant passages	Relevant to daim No.	
A	US 6 437 660 B1 (SULLIVAN ROBERT 20 August 2002 (2002-08-20) column 1, lines 13-24 column 3, lines 22-27 column 4, lines 21-30; figures 3		1	
Α	US 6 239 985 B1 (FERAUD JACQUES 29 May 2001 (2001-05-29) column 2, line 60 - column 3, line figures 1,2		1	
A	US 5 930 119 A (BERDING ANDREW R) 27 July 1999 (1999-07-27) column 3, lines 45-50 column 4, lines 7-18; figures 1-4	•	. 1	
	·			
Further documents are listed in the continuation of box C. Patent family members are listed in annex.				
 Special categories of cited documents: "I" later document published after the international filing date 				
"A" document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
E earlier document but published on or after the international filing date *X* document of particular relevance; the claimed invention cannot be considered to				
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another site to establish the site of another site to establish the site of another site of another site of the establish the site of another si				
citation or other special reason (as specified) Cannot be considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or document is combined with one or more other such docu-				
P docume	other means *P* document published prior to the international filing date but later than the priority date claimed *A* document member of the same patent family *A* document member of the same patent family			
	actual completion of the international search	Date of mailing of the international sea		
2	4 January 2005	31/01/2005		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 Authorized officer				
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Schneider, F		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/051440

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6437660	B1	20-08-2002	NONE		
US 6239985	B1	29-05-2001	NONE		
US 5930119	A	27-07-1999	AU CA EP JP WO	3309799 A 2322151 A1 1060644 A2 2003524288 T 9944400 A2	15-09-1999 02-09-1999 20-12-2000 12-08-2003 02-09-1999

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/EP2004/051440 09.07.2004 11.07.2003 International Patent Classification (IPC) or both national classification and IPC H05K7/14, G06F13/40 Applicant MARCONI COMMUNICATIONS GMBH This opinion contains indications relating to the following items: 1. Box No. I Basis of the opinion ☐ Box No. II **Priority** ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No.

√

V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas

Tel. +31 70 340 - 2040 Tx: 31 651 epo nl

Fax: +31 70 340 - 3016

Authorized Officer

Schneider, F

Telephone No. +31 70 340-1003



10/564688 IAP20 ROSGIGARD 11 JAN 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/051440

	Box	No. I Basis of the opinion					
1.	With regard to the language , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
	la	This opinion has been established on the basis of a translation from the original language into the following anguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:						
		a sequence listing					
		table(s) related to the sequence listing					
	b. format of material:						
		in written format					
		in computer readable form					
	c. tim	e of filing/furnishing:					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	h C	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as ppropriate, were furnished.					
4.	Additi	onal comments:					

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10

No: Claims

Inventive step (IS)

Yes: Claims

1-10

No: Claims

Industrial applicability (IA)

Yes: Claims No: Claims 1-10

see separate sheet

2. Citations and explanations

10/564688

IAP20 REGIGETITTO 11 JAN 2006

International application No.

PCT/EP2004/051440

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING **AUTHORITY (SEPARATE SHEET)**

Re Item V.

The application relates to a backplane for establishing a signal connection between a plurality of cards (claim 1).

As closest prior art is considered D1 (=US 6 437 660 B1) disclosing a backplane for establishing a signal connection between a plurality of cards comprising a support for signalling lines and a plurality of card slots located on said support in a predefined sequence for connecting a card, each of the card slots having a plurality of signal-carrier contacts which are located at each card slot according to a same pattern.

The subject-matter of claim 1 differs from D1 in that at the card slots, at least two positions of contacts are defined such that a contact at one of these two positions, referred to as the 0-th position, of each card slot that has a successor card slot in said sequence is connected to a contact at said other position of said successor card slot, referred to as the first position, via the backplane.

The subject-matter of claim 1 thus is new (Art. 33(2) PCT).

According to the prior art backplane, all the contacts located at a same position at each card slot are connected to a same data bus line, each card slot has an address assigned to it and for signal transmission, signals are transmitted on the bus in the form of messages comprising the address of a card for which the message is intended.

With respect to inventive step, it results from the above-mentioned distinguishing features that a connection is provided for signal transmission between a first card slot of the backplane and a second card at the successor of said first card slot, enabling thereby the transmission of signals between the cards mounted in said first and second card slots without using the bus lines. Certain functions of a card, especially safety-relevant functions, can therefore be triggered without having to transmit a message on the backplane in a format that is compatible with the bus.

The technical problem to be solved may therefore be regarded as to provide a backplane comprising means for transmitting messages to trigger certain functions of a card, especially safety-relevant functions, without having to transmit a message on the backplane in a format that is compatible with the bus.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/051440

The other documents cited in the search report disclose a backplane having similar technical features as the ones of D1. Said documents therefore provide no indication or teaching that could lead the skilled man toward the solution of claim 1.

Therefore an inventive step is considered present.

The industrial application of claim 1 is beyond any doubt.

Independent claim 1 thus meets the requirements of Articles 33(2),33(3), 33(4) PCT.

Claims 2-10 are all dependent claims with preferred features, meeting also the requirements of Art 33(2)&(3) PCT in combination with claim 1.

The industrial applicability of the claims is also apparent.